

Graphical abstracts

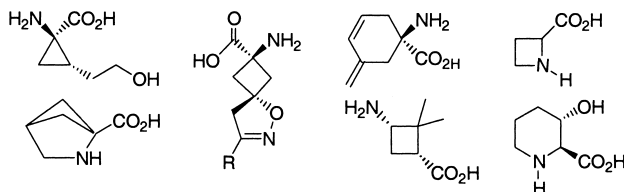
Cyclic amino acid derivatives

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^aDuPont, Central Research and Development, Experimental Station, P.O. Box 80328, Wilmington, DE 19880-0328, USA

^bDepartment of Chemistry, University of California, Davis, CA 95616, USA

This report provides an overview of the preparation of conformationally constrained cyclic amino acids and their derivatives.

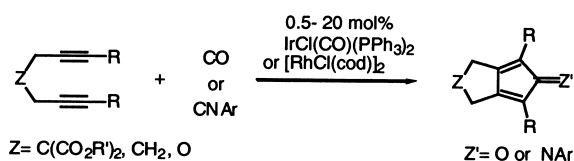


Tetrahedron 58 (2002) 8629

Ir and Rh complex-catalyzed intramolecular alkyne-alkyne couplings with carbon monoxide and isocyanides

Takanori Shibata,* Koji Yamashita, Emi Katayama and Kentaro Takagi

Department of Chemistry, Faculty of Science, Okayama University, Tsushima, Okayama 700-8530, Japan

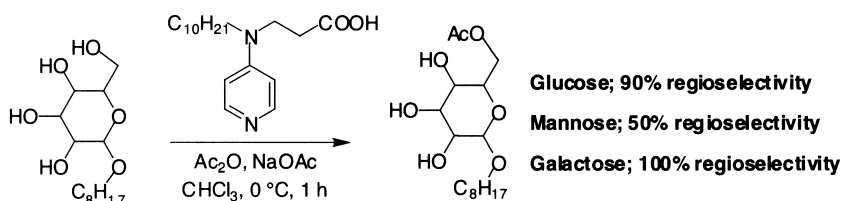


Tetrahedron 58 (2002) 8661

Functionalized DMAP catalysts for regioselective acetylation of carbohydrates

Takuya Kurahashi, Tadashi Mizutani* and Jun-ichi Yoshida*

Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan

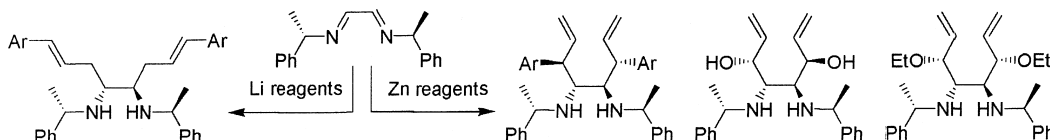


Tetrahedron 58 (2002) 8669

Study of the regioselectivity and diastereoselectivity in the addition of 3-substituted-2-propenylmetal reagents to *N,N'*-di[1(*S*)-phenylethyl]ethanediimine

Claudio Fiorelli, Lucia Maini, Gianluca Martelli, Diego Savoia* and Carla Zazzetta

Dipartimento di Chimica 'G. Ciamician', Università di Bologna, via Selmi 2, 40126 Bologna, Italy



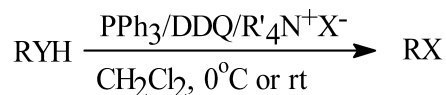
Tetrahedron 58 (2002) 8679

Triphenylphosphine/2,3-dichloro-5,6-dicyanobenzoquinone as a new, selective and neutral system for the facile conversion of alcohols, thiols and selenols to alkyl halides in the presence of halide ions

Tetrahedron 58 (2002) 8689

N. Iranpoor,* H. Firouzabadi,* Gh. Aghapour and A. R. Vaez zadeh

Department of Chemistry, College of Sciences, Shiraz University, Shiraz 71454, Iran



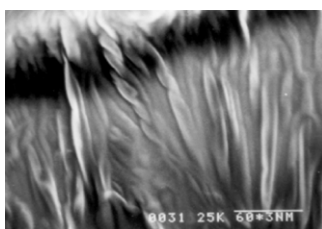
Y= O, S, Se R'= H, n-Butyl, n-Hexyl
X= Cl, Br, I

Fibril-forming model synthetic peptides containing 3-aminophenylacetic acid

Tetrahedron 58 (2002) 8695

Samir Kumar Maji, Debasish Haldar, Arijit Banerjee and Arindam Banerjee*

Department of Biological Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata 700 032, India



CD1a-binding glycosphingolipids stimulating human autoreactive T-cells: synthesis of a family of sulfatides differing in the acyl chain moiety

Tetrahedron 58 (2002) 8703

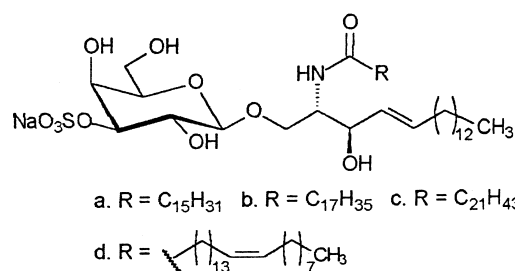
Federica Compostella,^a Laura Franchini,^a Gennaro De Libero,^b Giovanni Palmisano,^c Fiamma Ronchetti^a and Luigi Panza^{d,*}

^a*Dipartimento di Chimica e Biochimica Medica, Università di Milano, Via Saldini 50, 20133 Milano, Italy*

^b*Experimental Immunology, University Hospital, 4031 Basel, Switzerland*

^c*Dipartimento di Scienze Chimiche, Fisiche e Matematiche, Università dell' Insubria, Via Valleggio 11, 22100 Como, Italy*

^d*Dipartimento di Scienze Chimiche, Alimentari, Farmaceutiche e Farmacologiche, Università del Piemonte Orientale, Viale Ferrucci 33, 28100 Novara, Italy*



Absolute configuration, conformation, and chiral properties of flavanone-(3→8'')-flavone biflavonoids from *Rheedia acuminata*

Tetrahedron 58 (2002) 8709

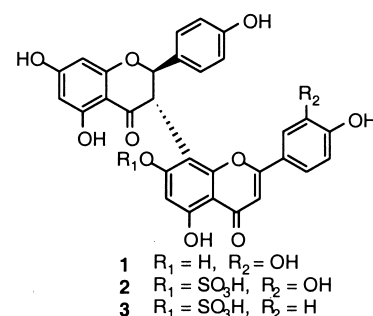
Xing-Cong Li,^{a,*} Alpana S. Joshi,^a Bo Tan,^b Hala N. ElSohly,^a Larry A. Walker,^{a,c} Jordan K. Zjawiony^b and Daneel Ferreira^{a,*}

^a*National Center for Natural Products Research, Research Institute of Pharmaceutical Sciences, School of Pharmacy, The University of Mississippi, MS 38677, USA*

^b*Department of Pharmacognosy, School of Pharmacy, The University of Mississippi, MS 38677, USA*

^c*Department of Pharmacology, School of Pharmacy, The University of Mississippi, MS 38677, USA*

Variable temperature NMR, AM1 calculations, and circular dichroism permitted the first unequivocal definition of the two low-energy conformers and absolute configurations of a series of flavanone-(3→8'')-flavone biflavonoids.



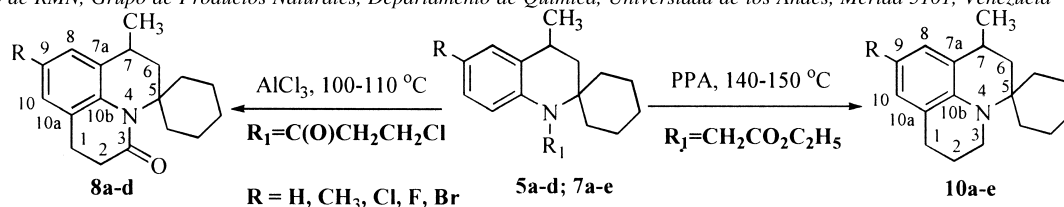
Studies directed to the synthesis of new C-5 spiroannulated julolidines

Tetrahedron 58 (2002) 8719

Alirio Palma,^a Javier Silva Agredo,^a Claudia Carrillo,^a Vladimir Kouznetsov,^{a,*} Elena Stashenko,^a Alí Bahsas^b and Juan Amaro-Luis^b

^aLaboratory of Fine Organic Synthesis, Research Center for Biomolecules, School of Chemistry, Industrial University of Santander, A.A. 678, Bucaramanga, Colombia

^bLaboratorio de RMN, Grupo de Productos Naturales, Departamento de Química, Universidad de los Andes, Mérida 5101, Venezuela



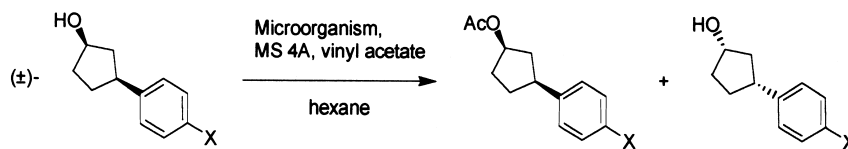
Efficient and practical synthesis of both enantiomers of 3-phenylcyclopentanol derivatives

Tetrahedron 58 (2002) 8729

Yoshiyuki Okumura,^a Akemi Ando,^a Rodney William Stevens^a and Makoto Shimizu^{b,*}

^aDepartment of Medicinal Chemistry, Pfizer Global Research and Development, Nagoya, 5-2 Taketoyo, Aichi 470-2393, Japan

^bDepartment of Chemistry for Materials, Mie University, Tsu, Mie 514-8507, Japan



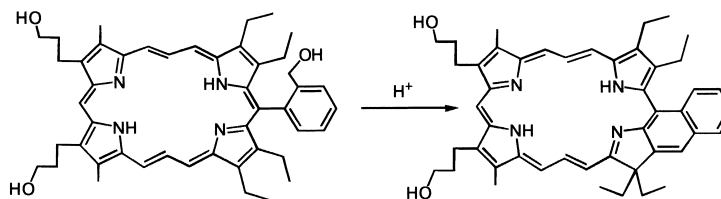
Synthesis of a bis-vinyllogous chlorin possessing a fused naphthalene ring

Tetrahedron 58 (2002) 8737

Dipanjan Sengupta and Byron Robinson*

Miravant Pharmaceuticals, Inc., 336 Bollay Drive, Santa Barbara, CA 93117, USA

A novel expanded chlorin with a fused naphthalene ring was synthesized from a (2'-hydroxymethyl)phenyl bis-vinyllogous porphyrin via an acid catalyzed cyclization.



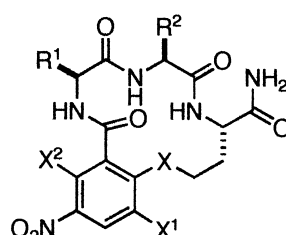
Fluorinated and iodinated templates for syntheses of β-turn peptidomimetics

Tetrahedron 58 (2002) 8743

Luyong Jiang and Kevin Burgess*

Department of Chemistry, Texas A&M University, P.O. Box 30012, College Station, TX 77842-3012, USA

Solid phase syntheses of the neurotrophin β-turn mimics are reported, along with conformational analyses, and assignment of the S-atom configuration of sulfur for the sulfoxides.



X = S, SO, SO₂,
X¹ and X² = H, F, and I

R¹, R² = amino acid side chains

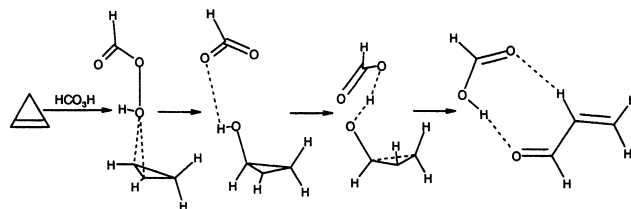
Is 2-oxabicyclobutane formed during the reaction of peroxyacids with cyclopropene? A high-level ab initio study

Tetrahedron 58 (2002) 8751

Sergiy Okovytyy,^{a,b} Leonid Gorb^a and Jerzy Leszczynski^{a,*}

^aComputational Center for Molecular Structure and Interactions, Department of Chemistry, Jackson State University, Jackson, MS 39217, USA

^bDepartment of Organic Chemistry, Dnepropetrovsk National University, Dnepropetrovsk 39625, Ukraine



Salt effect on the *endo:exo* ratio of the reaction of cyclopentadiene with methyl methacrylate

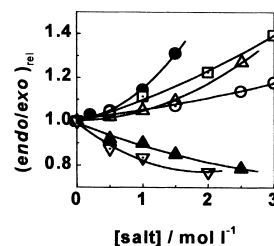
Tetrahedron 58 (2002) 8759

Suvarna S. Deshpande,^a Usha D. Phalgune^b and Anil Kumar^{a,*}

^aPhysical Chemistry Division, National Chemical Laboratory, Pune 411 008, India

^bOCS Division, National Chemical Laboratory, Pune 411 008, India

The salt effect on the stereoselectivities of the reaction of cyclopentadiene with methyl methacrylate has been examined in detail.



Stereoselective formation of optically active 2-oxy-1,3-oxazolidin-4-ones from chiral *O*-acylmandelamides or lactamides

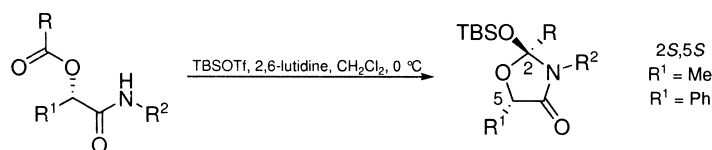
Tetrahedron 58 (2002) 8763

Akio Kamimura,^{a,*} Yoji Omata,^a Akikazu Kakehi^b and Masashi Shirai^c

^aDepartment of Applied Chemistry, Faculty of Engineering, Yamaguchi University, Ube 755-8611, Japan

^bDepartment of Chemistry and Material Engineering, Faculty of Engineering, Shinshu University, Nagano 380-8553, Japan

^cUbe Laboratory, Ube Industries Ltd., Ube 755-8633, Japan

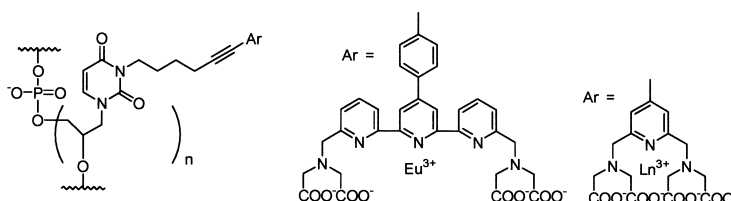


Oligonucleotide conjugates based on acyclonucleosides and their use in DNA hybridization assays

Tetrahedron 58 (2002) 8771

Harri Hakala, Pia Ollikka, Jenni Degerholm and Jari Hovinen^{*}

PerkinElmer Life Sciences, Turku Site (Wallac Oy), P.O. Box 10, FIN-20101 Turku, Finland

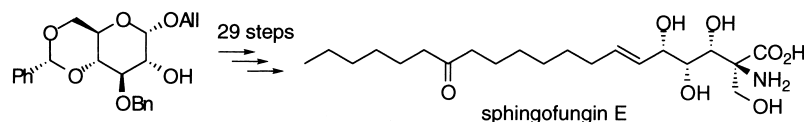


Total synthesis of sphingofungin E from D-glucose derivative

Tsuyoshi Nakamura and Masao Shiozaki*

Exploratory Chemistry Research Laboratories, Sankyo Co., Ltd., 2-58 Hiromachi 1-Chome, Shinagawa-ku, Tokyo 140-8710, Japan

Tetrahedron 58 (2002) 8779

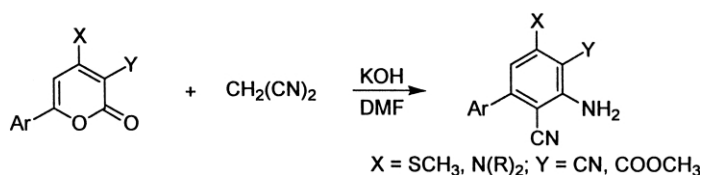


A diversity oriented synthesis of highly functionalized unsymmetrical biaryls through carbanion induced ring transformation of 2H-pyran-2-ones

Nidhi Agarwal, Abhishek S. Saxena, Farhanullah, Atul Goel and Vishnu J. Ram*

Medicinal Chemistry Division, Central Drug Research Institute, Lucknow 226001, India

Tetrahedron 58 (2002) 8793



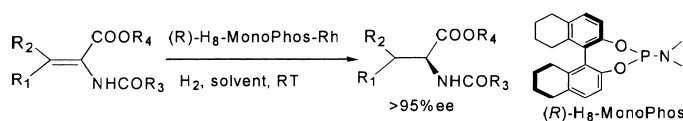
H₈-MonoPhos and its application in catalytic enantioselective hydrogenation of α -dehydroamino acids

Qingle Zeng,^a Hui Liu,^a Aiqiao Mi,^a Yaozhong Jiang,^{a,*} Xingshu Li,^b Michael C. K. Choi^b and Albert S. C. Chan^b

^aUnion Laboratory of Asymmetric Synthesis, Chengdu Institute of Organic Chemistry, Chinese Academy of Sciences, Chengdu 610041, People's Republic of China

^bOpen Laboratory of Chirotechnology and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, People's Republic of China

Tetrahedron 58 (2002) 8799

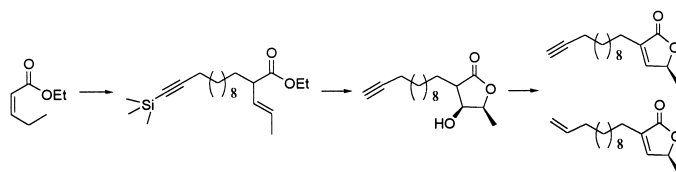


Sharpless AD strategy towards the γ -methyl butenolide unit of acetogenins: enantioselective synthesis of butenolide I and II with mosquito larvicidal activity

Yan-Tao He, Hui-Na Yang and Zhu-Jun Yao*

State Key Laboratory of Bioorganic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, People's Republic of China

Tetrahedron 58 (2002) 8805



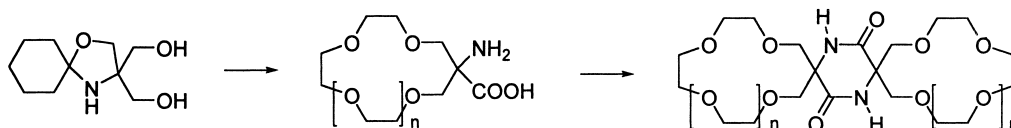
α -Amino acids and dioxopiperazines crowned at the α -carbons with polyether macrorings. Synthesis, complexation and self-assembling properties

Tetrahedron 58 (2002) 8811

Martin Bělohradský,^a Ivana Císařová,^b Petr Holý,^a Jan Pastor^a and Jiří Závada^{a,*}

^aInstitute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, 166 10 Prague, Czech Republic

^bDepartment of Inorganic Chemistry, Charles University, 128 40 Prague, Czech Republic



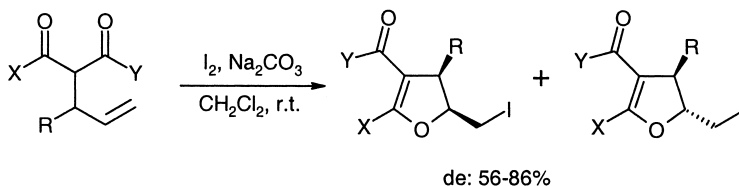
Diastereoselective synthesis of 4,5-dihydrofurans by iodoenolcyclisation of 2-allyl-1,3-dicarbonyl compounds

Tetrahedron 58 (2002) 8825

Roberto Antonioletti,* Savina Malancona and Paolo Bovicelli

C.N.R. Istituto di Chimica Biomolecolare-Sezione di Roma, c/o Dipartimento di Chimica, Università di Roma 'La Sapienza',

p.le A.Moro 5 Box 34 Roma 62, I-00185 Roma, Italy



Novel lipid A mimetics derived from pentaerythritol: synthesis and their potent agonistic activity

Tetrahedron 58 (2002) 8833

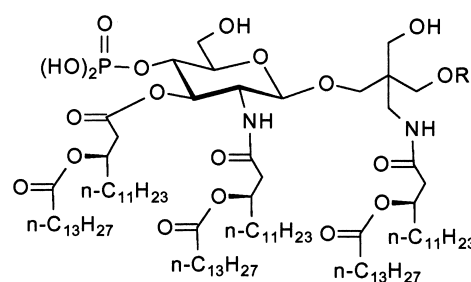
Zi-Hua Jiang, Wladyslaw A. Budzynski, Lisa N. Skeels,

Mark J. Krantz and R. Rao Koganty*

Biomira Inc., 2011-94 Street, Edmonton, Alta., Canada T6N 1H1

3 R = H

4 R = P(O)(OH)₂



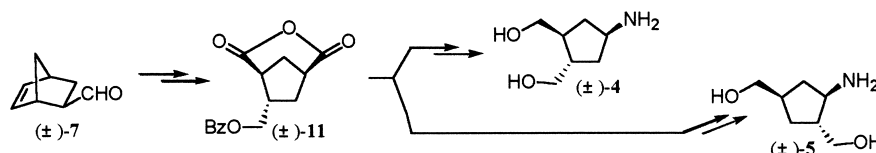
Divergent synthesis of two precursors of 3'-homo-2'-deoxy- and 2'-homo-3'-deoxy-carbocyclic nucleosides

Tetrahedron 58 (2002) 8843

José M. Blanco,^a Franco Fernández,^{a,*} Xerardo García-Mera^a and José E. Rodríguez-Borges^b

^aDepartamento de Química Orgánica, Facultad de Farmacia, Universidade de Santiago de Compostela, Santiago de Compostela E-15782, Spain

^bCIQ, Departamento de Química, Faculdade de Ciências do Porto, Rua do Campo Alegre, 687-4169007 Porto, Portugal

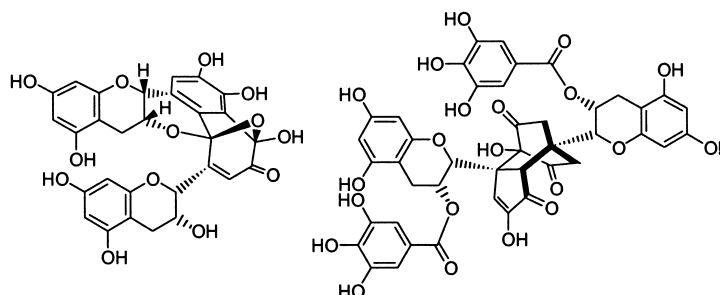


Structures of two new oxidation products of green tea polyphenols generated by model tea fermentation

Takashi Tanaka, Chie Mine and Isao Kouno*

Department of Molecular Medicinal Sciences,
Graduate School of Biomedical Sciences, Nagasaki University,
1-14 Bunkyo Machi, Nagasaki 852-8521, Japan

Tetrahedron 58 (2002) 8851



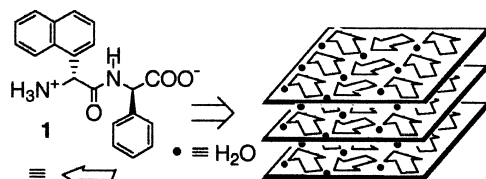
An important role of water in construction and destruction of the sheet structure in dipeptide aggregate

Motohiro Akazome,^a Toshiaki Takahashi,^b Ryo-ichi Sonobe^a and Katsuyuki Ogura^{a,*}

^aDepartment of Materials Technology, Faculty of Engineering, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

^bGraduate School of Science and Technology, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

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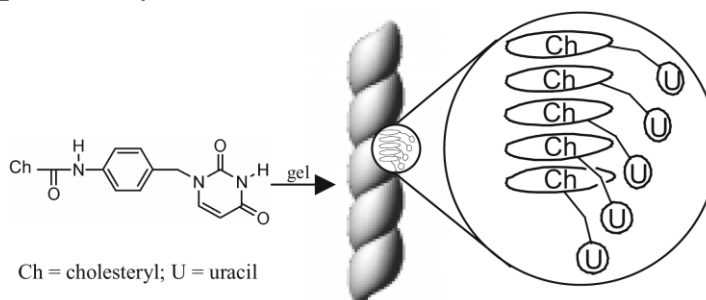
Gel formation properties of a uracil-appended cholesterol nucleobases and cooperative effects of the complementary nucleobases

Erwin Snip,^a Kazuya Koumoto^a and Seiji Shinkai^{a,b,*}

^aChemotransfiguration Project, Japan Science and Technology Corporation (JST), Kurume Research Center Bldg.,
2432 Aikawa, Kurume, Fukuoka 839-0861, Japan

^bDepartment of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka 812-8581, Japan

Tetrahedron 58 (2002) 8863



Synthesis of a strained, air-sensitive, polycyclic aromatic hydrocarbon by means of a new 1,4-benzadiyne equivalent

Ingeborg I. Schuster, Liliana Craciun, Douglas M. Ho and Robert A. Pascal, Jr.*

Department of Chemistry, Princeton University, Princeton, NJ 08544, USA

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